

Client's ref.: TSMC2003-1272/PE:DCLin
Our ref.: 0503-A30243-USf/Yianhou/Kevin

What is claimed is:

1 1. A process scheduling system, comprising:
2 a plurality of configurations comprising at least one
3 resource item and at least one process of an
4 application system;
5 a fetch module to fetch resource status data of the resource
6 item;
7 a timing scheduling module to determine an execution time
8 point for the process according to the resource
9 status data; and
10 a trigger module to execute the process at the execution
11 time point.

1 2. The system of claim 1 wherein the configuration
2 further comprises a fetch frequency, and according to which the
3 fetch module fetches the resource status data.

1 3. The system of claim 1 wherein the resource status data
2 for determination is within a predetermined reference range.

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1 4. The system of claim 1 wherein the resource item
2 comprises a central processing unit (CPU) of the application
3 system, and the resource status data comprises the CPU use rate.

1 5. The system of claim 1 wherein the resource item
2 comprises a disk of the application system, and the resource
3 status data comprises the disk use rate.

1 6. The system of claim 1 wherein the fetch module further
2 fetches the resource status data of the resource item as feedback
3 for further determination after the process is executed.

1 7. The system of claim 1 wherein the timing scheduling
2 module determines the execution time point based on a neural
3 network model.

1 8. A process scheduling method, comprising the steps of:
2 fetching resource status data of at least one resource item
3 of an application system;
4 determining an execution time point for at least one
5 process according to the resource status data; and
6 executing the process at the execution time point.

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1 9. The method of claim 8 further comprising fetching the
2 resource status data according to a fetch frequency.

1 10. The method of claim 8 further comprising determining
2 the execution time point according to the resource status data
3 within a predetermined reference range.

1 11. The method of claim 8 wherein the resource item
2 comprises a central processing unit (CPU) of the application
3 system, and the resource status data comprises the CPU use rate.

1 12. The method of claim 8 wherein the resource item
2 comprises a disk of the application system, and the resource
3 status data comprises the disk use rate.

1 13. The method of claim 8 further comprising fetching the
2 resource status data of the resource item as feedback for further
3 determination after the process is executed.

1 14. The method of claim 8 further comprising determining
2 the execution time point based on a neural network model.

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1 15. A machine-readable storage medium storing a computer
2 program which, when executed, directs a computer to perform a
3 process scheduling method, comprising the steps of:

4 fetching resource status data of at least one resource item
5 of an application system;

6 determining an execution time point for at least one

7 process according to the resource status data; and

8 executing the process at the execution time point.

1 16. The storage medium of claim 15 further comprising
2 fetching the resource status data according to a fetch
3 frequency.

1 17. The storage medium of claim 15 further comprising
2 determining the execution time point according to the resource
3 status data within a predetermined reference range.

1 18. The storage medium of claim 15 wherein the resource
2 item comprises a central processing unit (CPU) of the
3 application system, and the resource status data comprises the
4 CPU use rate.

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1 19. The storage medium of claim 15 wherein the resource
2 item comprises a disk of the application system, and the resource
3 status data comprises the disk use rate.

1 20. The storage medium of claim 15 further comprising
2 fetching the resource status data of the resource item as
3 feedback for further determination after the process is
4 executed.